

# Krishaan Bhagat

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## EDUCATION

University of Wisconsin-Madison

May 2025

Bachelor of Science in Computer Science | GPA: 3.99/4.0

Relevant Courses: Machine Learning, Machine Organization, Algorithms, Object-Oriented Programming, Software Engineering

## TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C#, C, SQL, HTML, CSS

Technologies: React, Node.js, Flask, Next.js, PyTorch, LangChain, Angular, Vue.js, Vitest, Jest, Tailwind, Bootstrap, Stencil, Ember

Tools: Git, Docker, CI/CD Pipelines, MySQL, MongoDB, Firebase, SQLAlchemy

## EXPERIENCE

Esri

May 2024 - August 2024

Software Engineer Internship

- Directed the migration of header links from Ember to Stencil components on a platform serving **1 million+** users, orchestrating epic solutioning with a cross-functional team to design and implement section links as an enhancement post-migration
- Expanded the stat card Schema and uiSchema by introducing new layouts and card views, and integrated TSX components to support these customization capabilities, impacting **350,000+** organizations worldwide
- Constructed comprehensive test suites leveraging Jest, Karma, and Jasmine, achieving **80%** overall testing coverage and fortifying codebase integrity through the architecture of unit, integration, and E2E testing

Anuvu

June 2022 - September 2022

Software Engineer Internship - Aviation Network

- Contributed to the real-time monitoring system in Python that reduced network downtime by **15%** and improved reliability
- Utilized the Linux operating system's command line interface to diagnose modem-related issues on **105+** in-flight aircraft, ensuring consistent connectivity and maintained network functionality
- Commissioned **135+** modems proficiently by testing satellite network configurations and managed data within a SQL database

## PROJECTS

Bracket Brain

March 2025

To make bracket-building more meaningful and engaging for NCAA Tournament fans, fostering community through predictions

<https://frontend-e4ce.onrender.com>

- Engaged **500+** student users, generating **1,200+** bracket submissions and **1000+** chatbot queries, demonstrating user interest
- Designed an AI-driven prediction system using a Random Forest Classifier trained on historical NCAA tournament data (2008-2024), achieving a cross-validation accuracy of **98.2%** on test data
- Architected a secure backend using Python, Flask, and RESTful APIs, SQL database integration, containerized deployment with Docker, and CI/CD pipelines that facilitated **50+** automated deployments, enabling efficient workflow

Commute Compass | Esri Hackathon Finalist | Lead Full-Stack Developer

July 2024

To simplify the complex decision of where to live and work by combining real-time commute analysis with geospatial data

Note: Project is inactive due to expired hackathon API key | [Live Demo](#)

- Embedded Indeed and Rent.com listings to provide real-time job and housing options, driving **320+** daily searches
- Integrated ArcGIS Maps SDK for JavaScript with Service Areas and Geometry Engine APIs to calculate and visualize overlapping commute zones, reducing commute time overlap by **37%** compared to single search
- Leveraged ArcGIS Business Analyst and Geoenrichment Service APIs to generate dynamic regional infographics with insights of **125+** economic variables per demographic, enabling users to explore key amenities

Referee Ready

June 2023

To empower aspiring referees with the knowledge and resources they need to officiate games confidently, through interactive guidance

<https://soccer-referee-app.vercel.app>

- Delivered training resources to **126,000+** soccer referees, boosting accessibility and engagement among youth officials nationwide
- Developed an AI-powered chatbot featuring a RAG system using Langchain, Chroma vector base, OpenAI embeddings, enabling semantic rulebook search with an GPT fallback for broader soccer knowledge
- Migrated web app from HTML, Vanilla JavaScript, and CSS to React, enhancing scalability, maintainability, and user experience